

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-058615

(43)Date of publication of application : 02.03.1999

(51)Int.Cl.

B32B 27/00  
A61F 13/46  
A61F 5/44  
A61F 13/15  
B01J 20/26  
B01J 20/28  
// C08K 7/02  
C08L101/14

(21)Application number : 10-130728

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(22)Date of filing : 13.05.1998

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(30)Priority

Priority number : 09156265 Priority date : 13.06.1997 Priority country : JP

## (54) ABSORBENT ARTICLE AND MANUFACTURE THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To enhance the water absorption properties of an absorbent article and contrive to thin a medical supply by a method wherein a water absorbing resin, the concentration absorption index of which is larger than the specified value, is used in an absorbent article containing an absorber, the weight ratio of the water absorbing resin to the sum of the water absorbing resin and a fibrous material of which is a specified value.

SOLUTION: An absorbent article suitable for a medical supply such as a paper diaper or the like is manufactured by having an absorbing layer containing an absorber, the weight ratio ( $\bar{a}$ ) of a water absorbing resin to the sum of the water absorbing resin and a fibrous material of which is 0.4 or larger, a front surface sheet having a liquid permeability and a back surface sheet having a liquid impermeability as constituent components. In this case, when let A g/g be the absorption ratio of the water absorbing resin under no pressure and B g/g be the absorption ratio of the water absorbing resin under pressure, a formula:  $A(1-\bar{a})+B\bar{a}$  defines a concentration absorption index. The water absorbing resin having the concentration absorption index of 35 or larger is employed. Further, the fibrous material used is hydrophilic fibers. Furthermore, when let ( $\bar{a}$ ) (g/min) be the velocity of a liquid passing through the absorber, the velocity of the liquid passing through the absorber at a second time is preferably  $\bar{a}(1-\bar{a})$  (g/min) or less.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11) 特許出願公開番号

特開平11-58615

(43) 公開日 平成11年(1999) 3月2日

(51) Int.Cl.<sup>°</sup> 識別記号

B 3 2 B 27/00

A 6 1 F 13/46

5/44

13/15

B 0 1 J 20/26

F I

B 3 2 B 27/00

A 6 1 F 5/44

B 0 1 J 20/26

20/28

C 0 8 K 7/02

K

H

D

Z

審査請求 未請求 請求項の数12 O L (全 19 頁) 最終頁に続く

(21) 出願番号 特願平10-130728

(22) 出願日 平成10年(1998) 5月13日

(31) 優先権主張番号 特願平9-156265

(32) 優先日 平9(1997) 6月13日

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(54) 【発明の名称】 吸収性物品及びその製造方法

(57) 【要約】

【課題】 吸水性樹脂と繊維材料との合計量に対する吸水性樹脂の重量比が $\alpha$ である場合に必要な吸水性樹脂の吸収特性を明らかにし、その吸水性樹脂の重量比 $\alpha$ に対して最適な吸水性樹脂を用いた吸収性物品を提供する。

【解決手段】 吸水性樹脂と繊維材料との合計量に対する吸水性樹脂の重量比 $\alpha$ が0.4以上である吸収性物品に使用する吸水性樹脂として、樹脂の無加圧下吸収倍率をA(q/q)、加圧下吸収倍率をB(q/q)としたときに下記式(1)で示される濃度吸収指数が3.5以上のものを用いる。

濃度吸収指数 =  $A(1 - \alpha) + B\alpha$  ……(1)